

REMARKS/ARGUMENTS

Claim Amendments

The Applicant has amended claims 1, 4, 14, 17 and 25. Applicant respectfully submits no new matter has been added. Accordingly, claims 1-2, 4-6, 8-15, 17, 19-26, 28 and 33-38 are pending in the application. Favorable reconsideration of the application is respectfully requested in view of the foregoing amendments and the following remarks.

Response to Arguments Presented in the Detailed Action

The Applicant appreciates the considered response to Applicant's arguments in the previous Office Action. The Applicant concedes certain portions of the Examiner's argument and submits that the stated features relied upon, "a readable string" and "a brief summary of parts" are present in the claim, but the elements are poorly worded. The Applicant has amended the independent claims to more clearly and distinctly recite the claimed limitations (see for instance, paragraphs [0011] and [0053] for support for the amendments).

Claim Rejections – 35 U.S.C. § 103 (a)

Claims 1-2, 4-6, 8-15, 17, 19-26, 28 and 33-36 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Elgamal (US 5,671,279) in view of "WMLScript Crypto Library", (hereinafter Crypto). The Applicant respectfully traverses the rejection of these claims.

As previously discussed, the Applicant's invention discloses a method for the authorization of transactions, which is adapted to a wireless network with low data transfer rates (para. 0004). An identifier for an authorization request that will be sent to a user equipment (e.g., mobile phone) is calculated from a content to be authorized, i.e., a transaction. The identifier is calculated utilizing components or parts of the actual transaction. The description of Figure 2 discloses providing a text string that "...is included in the authorization request and displayed by the user equipment UE. The text string is a comment provided for the user for identifying the content which is to be

signed...”, “e.g. an amount for payment, a document number, the title of a contract or a list of items ordered.” The text string is linked to the identifier and included in the authorization request. (Para. 0040) Alternatively, a default string that is stored in the UE which correlates to the indication may be displayed instead. The Applicant’s invention provides an understandable indication of the content to the user that is represented by the authorization request and the user may provide a signed authorization response upon reading the mobile phone display, for instance. (Para. 0053)

As indicated in the step “reducing the amount of data in the content for transfer to the UE;” the Applicant’s invention teaches altering the message so that there is – even if the identifier is a hash – never a correspondence between the message and the identifier. As noted previously, the identifier represents the content and NOT the message. The Applicant respectfully directs the Examiner to Amended claim 1.

1. (Currently Amended) A method for authorizing transactions in a wireless communication system, wherein a user equipment (UE), comprising a mobile phone, receives an authorization request for a content, the content comprising a transaction, which is to be authorized with an identifier and wherein the UE replies to the request with an authorization response, said method comprising the steps of:

- calculating the identifier from the content;
- reducing the amount of data for transfer to the UE;
- transmitting the authorization request with the identifier to the UE,
- receiving the authorization request at the UE,
- determining whether the authorization request comprises an indication, the indication comprising a string (T) or the indication corresponding to a default string in a UE memory, the string (T) and the default string comprising selected parts of the content in a form understandable by the user;
- selecting either string;
- outputting the selected string by the user equipment (UE),
- waiting for an input to approve or disapprove the authorization request.
- upon approval, signing the identifier using a signing function, and
- sending the authorization response according to the input, wherein an approving authorization response comprises the signed identifier. (emphasis added)

The Applicant respectfully submits that the Elgamal and Crypto reference, individually or in combination fail to suggest or teach the above emphasized limitations.

The Applicant respectfully asserts that the Elgamal reference does not disclose providing an indication (string or default string) of the authorization request that is understandable to the user. Elgamal is cited for calculating the identifier from the transaction information. The portion of the Elgamal reference cited for the calculation does include calculating an identifier. However, Elgamal does not disclose selecting a string or a default string that comprises "...selected parts of the content in a form understandable by the user;" as claimed in the Applicant's amended claim 1. Elgamal discloses generating data needed by the client before payment (Col. 9, lines 55-60; col. 5, lines 20-28). The Applicant has reviewed the cited portions of Elgamal and the cite in Col. 5, discloses generating a low grade signature using a hash of the Value and the customer's credit card number, PIN, etc. These are fixed, predetermined numbers and as the document states, a low grade signature, not an identifier for a transaction.

Elgamal is also cited for disclosing a string (T) understandable by the user (col. 26, lines 13-21). The cited portion discloses the orderDesc term as including, in Buyer-readable format, various items that describe the transaction. However, the Applicant respectfully submits that the orderDesc term is actually a part of a much larger Offer message from the Merchant. The Applicant's invention provides a confirmation of a transaction utilizing a message, related to the transaction that the user is confident represents the transaction. The Applicant's claimed message is reduced in size for display on the user's mobile phone.

The string generated by the present invention is displayed on the user equipment and since parts of the transaction are included in the readable string the user is able to identify which transaction is being requested to authorize. The string is included in the authorization request to allow identification of the transaction. The cited portion of the Elgamal reference indicates that an Offer Message is directed from a merchant to a buyer and is concerned with a purchase order, reference number and payment instructions. The transmission includes the orderDesc as part of the larger transmission.

The Applicant's invention provides, in a sense, a text "id" of the authorization request that provides identifiable content from a particular transaction. The text is

limited specifically because the receiver is a mobile terminal and the available display space is limited. The displayable data disclosed in Elgamal does not disclose the text can be displayed on a mobile phone display. The Applicant's invention is directed at displaying text on mobile phones.

The Crypto reference is cited for disclosing authorization of a transaction in WAP using a signText function which utilizes selected parts for the transaction information. The Applicant has reviewed the cited portion of Crypto and respectfully disagrees with the interpretation of the portion. Crypto states in section 5.1.1 that a call displays the exact text to be signed and in section 5.1.2 states that a user digitally signs a text string and the text to sign **MUST** be displayed to the user. There does not appear to be an disclosure of utilizing selected parts in contrast to the Applicant's invention which displays a string associated with an indication that is different from the signed identifier. Additionally, the Crypto reference lacks the limitations that are also lacking in Elgamal, that of displaying a string that represents an identifier and a default string that may be used in place of the string.

The Applicant respectfully submits that Elgamal and Crypto references, either individually or in combination lack the limitations recited in amended claim 1 and the Applicant respectfully requests the withdrawal of the rejection of claim 1.

As between claim 1 and the Elgamal and Crypto references, the Applicant respectfully submits that amended independent claims 14 and 25 are analogous to claim 1 and contain limitations similar to those found in claim 1. This being the case, claims 2, 4-6, 8-10, 12-13, 15, 17, 19-24, 26, 28, 33-36 which depend from the respective amended independent claims 1, 14 and 25 contain the same limitations. The Applicant respectfully requests the allowance of claims 1-2, 4-6, 8-15, 17, 19-26, 28 and 33-36.

Claims 37 and 38 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Elgamal in view of Crypto as applied to claims 1 and 17 above, and further in view of "Let Your Phone Read the Web to You" (hereinafter, "Phone"). The Applicant respectfully traverses the rejection of these claims.

The Applicant is unable to confirm the subject matter cited in the rejection of claims 37 and 38 since a reference number to Phone was not included with the Office Action. However, the Applicant respectfully submits that the Phone reference likely does not disclose the limitations missing from the Elgamal and Crypto references as stated above.

Claims 37 and 38 depend from amended claims 1 and 17 and recite further limitations in combination with the novel elements of claims 1 and 17. Therefore, the allowance of claims 37 and 38 is respectfully requested.

CONCLUSION

In view of the foregoing remarks, the Applicant believes all of the claims currently pending in the Application to be in a condition for allowance. The Applicant, therefore, respectfully requests that the Examiner withdraw all rejections and issue a Notice of Allowance for all pending claims.

The Applicant requests a telephonic interview if the Examiner has any questions or requires any additional information that would further or expedite the prosecution of the Application.

Respectfully submitted,

A handwritten signature in black ink, reading "Sidney L. Weatherford". The signature is fluid and cursive, with the first name "Sidney" being more prominent.

By Sidney L. Weatherford
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